

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-158033

(43)Date of publication of application : 21.06.1989

(51)Int.Cl. C08G 63/62

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(30)Priority

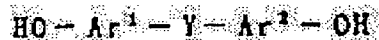
Priority number : 62243000 Priority date : 28.09.1987 Priority country : JP

(54) PRODUCTION OF AROMATIC POLYCARBONATE AND CRYSTALLINE AROMATIC POLYCARBONATE

(57)Abstract:

PURPOSE: To obtain the title polymer free from chlorine compound without causing the corrosion of the polymerizer, by prepolymerization between a dihydroxydiaryl compound and diaryl carbonate followed by crystallization of the resultant prepolymer and by polymerization on heating while retaining solid phase.

CONSTITUTION: First, prepolymerization is carried out under heating between (A) a dihydroxydiaryl compound (component) consisting of (i) $\geq 85\text{mol}\%$ of dihydroxydiaryllalkane of formula (Ar¹ and Ar² are each arylene; Y is alkylene, etc.) and (ii) $\leq 15\text{mol}\%$ of another dihydroxydiaryl compound and (B) a diaryl carbonate to prepare a prepolymer with a weight-average molecular weight (Mw) of 2,000 to 20,000 and terminal arylcarbonate group accounting for $>50\text{mol}\%$ of the total terminal groups. Secondary, this prepolymer is then crystallized to produce a crystallized prepolymer with a degree of crystallinity of 5W55%. Finally, this prepolymer is heated to such a temperature range as to be higher than the glass transition temperature of the final polymer and enable said crystallized prepolymer to retain a solid phase state to raise its polymerization degree, thus obtaining the objective polymer.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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